



**PATENT**

Case Docket No. BURNHAM.006A

Date: January 14, 2004

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Pellecchia, Maurizio  
App. No. : 10/686,192  
Filed : October 15, 2003  
For : USE OF SELECTIVE LABELING  
TO DETECT AND  
CHARACTERIZE MOLECULAR  
INTERACTIONS BY NUCLEAR  
MAGNETIC RESONANCE  
SPECTROSCOPY  
Examiner : Not Assigned  
Group Art Unit : Not Assigned

I hereby certify that this correspondence and all  
marked attachments are being deposited with the  
United States Postal Service as first class mail in  
an envelope addressed to: Commissioner for  
Patents, P.O. Box 1450, Alexandria, Virginia  
22313-1450, on

January 14, 2004

(Date)

*Darryl H. Steensma*

Darryl H. Steensma, Reg. No. 43,155

**TRANSMITTAL LETTER**

**COMMISSIONER FOR PATENTS**

**P.O. Box 1450**

**Alexandria, VA 22313-1450**

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) Information Disclosure Statement.
- (X) Form PTO-1449 listing sixteen (16) references which are also enclosed.
- (X) Return prepaid postcard.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment, to Account No. 11-1410.

*Darryl H. Steensma*

Darryl H. Steensma

Registration No. 43,155

Attorney of Record

**INFORMATION DISCLOSURE STATEMENT**

Applicant	:	Pellecchia, Maurizio
App. No.	:	10/686,192
Filed	:	October 15, 2003
For	:	USE OF SELECTIVE LABELING TO DETECT AND CHARACTERIZE MOLECULAR INTERACTIONS BY NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY
Examiner	:	Not Assigned
Group Art Unit	:	Not Assigned

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing sixteen (16) references that are also enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 14 January 2004

By: Darryl H Steensma  
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
BURNHAM.006AAPPLICATION NO.  
10/686,192INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT  
Pellecchia, MaurizioFILING DATE  
October 15, 2003GROUP  
Not Assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	5,698,401	12/16/97	Fesik et al.			
	2.	5,804,390	09/08/98	Fesik et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	3.	Altschl et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucleic Acids Res</i> , 25: 3389-3402 (1997)
	4.	Bogan and Thorn, "Anatomy of Hot Spots in Protein Interfaces," <i>J. Mol Biol</i> , 280: 1-9 (1998)
	5.	Crawford, "Synthesis of Tryptophan from Chorismate: Comparative Aspects," <i>Methods in Enzymology</i> , 142: 293-300 (1987)
	6.	Eddy, "Profile hidden Markov models," <i>Bioinformatics</i> , 14: 755-763 (1998)
	7.	Fildes, "The Biosynthesis of Tryptophan by Bact. Typhosum," <i>Br J Exp Pathol</i> , 26: 416-428 (1945)
	8.	Gribskov et al., "Profile Analysis," <i>Methods Enzymol</i> , 183: 146-159 (1990)
	9.	Kay and Gardner, "Solution NMR spectroscopy beyond 25 kDa," <i>Curr Op Struct Biol</i> , 7: 722-731 (1997)
	10.	Kim et al., "The specific incorporation of labelled aromatic amino acids into proteins through growth of bacteria in the presence of glyphosate," <i>FEBS</i> , 272: 34-36 (1990)
	11.	Lichtarge and Sowa, "Evolutionary predictions of binding surfaces and interactions," <i>Curr Opin Struct Biol</i> , 12: 21-27 (2002)
	12.	Pellecchia et al., "NMR in Drug Discovery," <i>Nature Rev Drug Disc</i> , 1: 211-219 (2002)
	13.	Pervushin et al., "Attenuated $T_2$ relaxation by mutual cancellation of dipole-dipole coupling and chemical shift anisotropy indicates an avenue to NMR structures of very large biological macromolecules in solution," <i>Proc Natl Acad. Sci USA</i> , 94: 12366-12371 (1997)
	14.	Sixl et al., "F-n.m.r. studies of ligand binding to 5-fluorotryptophan- and 3-fluorotyrosine-containing cyclic AMP receptor protein from <i>Escherichia coli</i> ," <i>Biochem J</i> , 266: 545-552 (1990)
	15.	Sun et al., NMR Structure and Mutagenesis of the Third Bir Domain of the Inhibitor of Apoptosis Protein XIAP," <i>J Biol Chem</i> , 275: 33777-33781 (2000)
	16.	Wüthrich, "The second decade - into the third millennium," <i>Nat Struct Biol</i> , 5: 492-495 (1998)

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EXAMINER	DATE CONSIDERED
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>	